

Astragalus Polysaccharide Promotes Doxorubicin-Induced Apoptosis by Reducing O-GlcNAcylation in Hepatocellular Carcinoma

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Table S1. Primers for quantitative Real-Time PCR.

	Primer sequence (5' to 3')
MDR1	Forward: TAATGCGACAGGAGATAGGCT Reverse: CCGCCATTGACTGAAAGAACAT
OGT	Forward: ATCCTCTTTCTCATGGCTTCAG Reverse: AACTCACATATCCTACACGCAG
OGA	Forward: AGCCAAATGGTGACAAGGAAGTCTC Reverse: GCTCCGACCAAGTATAACCATCC
GFPT1	Forward: CGGGAAAGTCAAGATACCAGC Reverse: CGTACACCAATCAACAGAGGG
GNPNAT1	Forward: TAGGCACCACTAAAAGACAGTG Reverse: TGGCCACTATTTGCTTGTGA
PGM3	Forward: GAGGAACATGCCACCTGTTT Reverse: CAAAGGCATCTTGTTCAGA
UAP1	Forward: TACATTTATTTCACTGCCCAATT Reverse: TTGCAGCTGGAAGCATTTGT
GAPDH	Forward: TGCACCACCAACTGCTTAGC Reverse: GGCATGGACTGTGGTCATGAG

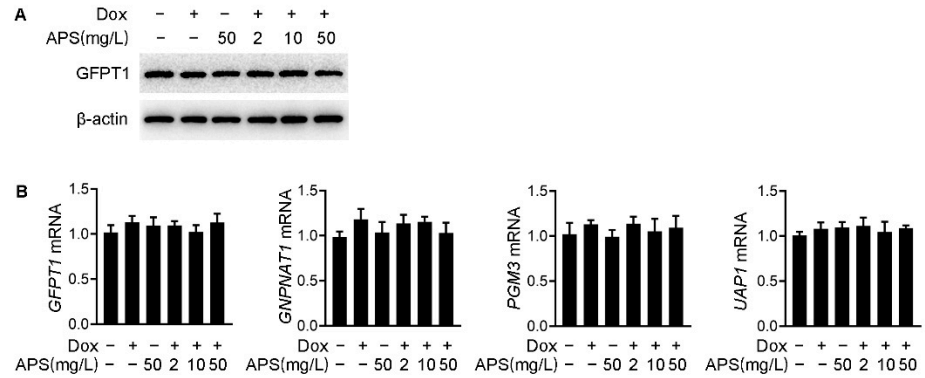


Figure S1. The effect of APS on the expression of HBP enzymes in Hep3B cells. Hep3B cells were treated with 1 μ M Dox along with or without increasing doses of APS (2, 10, 50 mg/L). (A) Protein level of GFAT1 was detected by Western blot. β -actin was used as an internal control. (B) mRNA levels of HBP enzymes (GFAT1, GNPAT1, PGM3, UAP1) were examined by real-time PCR. Data are expressed as mean \pm SEM from three independent experiments.

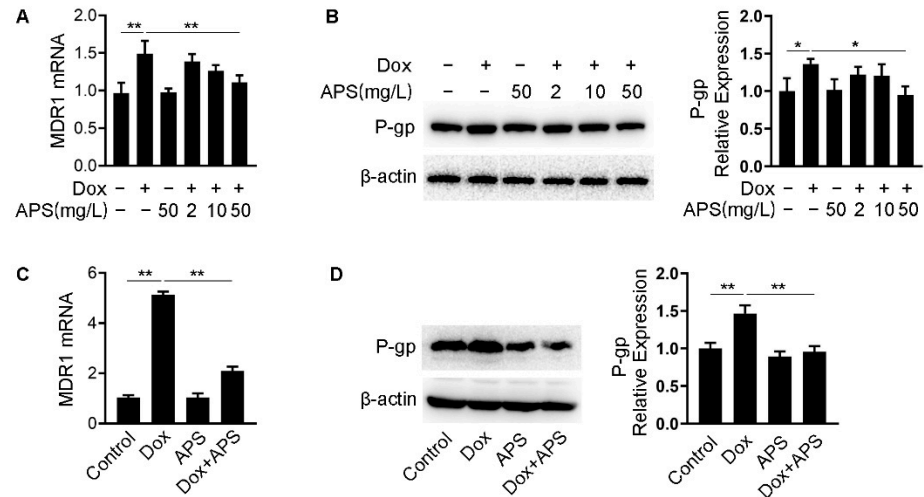


Figure S2. The effect of APS on the expression of MDR1 and P-glycoprotein (P-gp) in Hep3B cells or in xenograft tumor upon Dox treatment. Hep3B cells were treated with 1 μ M Dox along with or without increasing doses of APS (2, 10, 50 mg/L). mRNA level of MDR1 was measured by real-time PCR (A) and P-gp was detected by Western blot (B). The tumor tissues were harvest from xenograft tumor mice mentioned above. mRNA level of MDR1 was measured by real-time PCR (C) and P-gp was detected by Western blot (D). β -actin was used as an internal control. Data are expressed as mean \pm SEM from three independent experiments. *, $p < 0.05$, **, $p < 0.01$.